

3M™ Glass Bubbles K15

Technical DataSheet | Supplied by 3M

3M™ Glass Bubbles K15 by 3M is a soda-lime-borosilicate glass filler having low alkalinity, high strength, low density and lower film permeability. Shows chemical-, water-, abrasion-, scrub and burnish resistance. Offers uniform sheen, high-build/ low-slump, higher filler loading, reduced gloss, shrinkage and warpage. Recommended for oil & gas outdoor storage tanks, cryogenic tanks & tankers and gel coats for boat cabins. Exhibits chemical inertness, exterior solar reflectivity, low thermal conductivity, low dielectric constant and easier washability. It improves opacity, viscosity, flow, levelling and sprayability. 3M™ Glass Bubbles K15 is also used in solar reflective coatings for roofs, exterior walls, mobile phones, caravans, refrigerated storage warehouses and refrigerated trucks. Applicable for architectural, anti-condensation and industrial paints & coatings like maintenance coatings for bridges, truck under-carriages & other exposed metal structures and epoxy floor coatings. It is a non-combustible and non-porous grade.

Product Type	Fillers / Fibers
Chemical Composition	Soda-lime-borosilicate glass
Physical Form	Spheres, Micro size
Appearance	White
Product Status	COMMERCIAL
Applications/ Recommended for	Coatings Resins > Epoxies Coatings Markets > Architectural / Decorative > Exterior wall coatings Coatings Markets > Marine /Anti-Corrosive / Protective > Boat / Shipbuilding & Ship Repair Coatings Markets > General Industrial /Maintenance Coatings Markets > Flooring Coatings Markets > Transportation > Truck

3M™ Glass Bubbles K15 Properties

Property	Value & Unit	Test Condition	Test Method
Target crush strength (90% survival)	300 psi		
True density	0.15 g/cm ³		
Particle size distribution (10%), 3M QCM 193.2	30 microns by volume		

Particle size distribution (50%), 3M QCM 193.2 60 microns by volume

Particle size distribution (90%), 3M QCM 193.2 105 microns by volume

Test pressure 300 psi

Target fractional survival 90 %

Minimum fractional survival 80 %

Calculated thermal conductivity @ 21°C 0.055 W/(m. K)

Floaters 96 % by bulk volume

Effective top size, 3M QCM 193.2 115 microns by volume

Dielectric constant @ 100 MHz 1.2 - 1.7

Oil absorption, ASTM D281-84 0.2 - 0.6 g oil/cc

Volatile content < 0.5 %wt

Alkalinity < 0.5 meq/g

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